

Nebraska.—Fort Niobrara, 23d, 24th, 25th; Fort Robinson, 8th, 9th, 10th, 12th; Genoa, 23d, 24th; Marquette, 23d; North Platte and Red Willow, 10th, 11th, 23d, 24th; Table Rock, 24th.

Nevada.—Carson City, 6th, 7th; Fort McDermitt, 2d, 3d, 6th, 24th, 25th, 27th, 28th.

New Hampshire.—Berlin Mills, Grafton, Gorham and Milan, 2d, 24th; Hanover and New Ipswich, 24th; Mount Washington, 2d, 3d, 24th, 29th, 30th, 31st.

New York.—Kiantone, 15th; Oswego, 31st.

Pennsylvania.—Chambersburg, 31st.

Utah.—Fort Thornburg, 16th, 27th, 28th; Salt Lake City, 27th, 28th.

Vermont.—Bellows Falls and Woodstock, 24th; Lunenburg, and Strafford, 2d, 24th.

Washington Territory.—Fort Spokane, 28th.

Wisconsin.—Lancaster, 13th, 25th; La Crosse, 13th, 21st; Madison, 13th; Ripon, 13th, 17th.

Wyoming.—Cheyenne, 8th, 10th, 11th, 12th, 22d, 23d, 27th, 30th.

MONTHLY SNOWFALLS.

[Expressed in inches.]

The following monthly snowfalls have been reported from the various states and territories during the month:

California.—Cisco, 15; Summit, 9.5; Emigrant Gap, 9.

Colorado.—Fort Collins, 7.5; Pikes Peak, 1.4.

Dakota.—Fort Buford, 10.7; Fort Hale, about 5.5; Fort Bennett, 2.

Iowa.—Humboldt, 2.

Massachusetts.—Rowe, about 3; Heath, 2.

Michigan.—Mackinaw City, .5.

Minnesota.—Duluth, about 3; Minneapolis, 2.5; Northfield, 2.

Montana.—Fort Maginnis, about 40; Fort Shaw, about 18.5; Fort Assiniboine, 4.7; Fort Ellis, about 4.5.

Nebraska.—North Platte, about 15.5; Genoa, 7; Marquette, 5; Stockham, 3.

Nevada.—Truckee, 15; Boca, 13.5; Otego, 4.5; Halleck, 3; Tecoma, 2; Winnemucca, 2; Carson City, 1.5; Toano, 1.5; Wells, 1.5; Battle mountain, 1.

New Hampshire.—Mount Washington, about 20; Berlin Mills, about 8; Grafton, 4.

Utah.—Ogden, 4; Blue Creek, 2.5; Corinne, 2; Nephi, 1.1; Promontory, 1.

Vermont.—Lunenburg, 7; Strafford, 4; Woodstock, 2.

Wisconsin.—Lancaster, 2.3; Ripon, 1.9.

Wyoming.—Fort Bridger, 8; Cheyenne, about 7.3.

On the summit of Mount Washington, New Hampshire, at the close of the month, there remained three inches of unmelted snow on the ground; at Fort Maginnis, Montana, three inches, and at Poplar river, Montana, half an inch.

Table of rainy and cloudy days, relative humidity, and dew-point for Oct., 1883.

Districts.	Rainy days.	Cloudy days.	Rel. humidity. %	Dew-point.
			Percentages.	
New England.....	From 10 to 18	From 3 to 11	From 69.8 to 79.1	From 36.1 to 45.7
Middle Atlantic states.....	" 12 " 20	" 7 " 16	" 65.1 " 81.7	" 38.5 " 55.3
South Atlantic states.....	" 6 " 15	" 6 " 16	" 71.8 " 89.1	" 53.9 " 64.9
Florida peninsula.....	" 10 " 16	" 2 " 10	" 80.5 " 81.9	" 58.8 " 72.7
East Gulf.....	" 5 " 11	" 4 " 9	" 68.0 " 75.4	" 58.5 " 64.2
West Gulf.....	" 10 " 18	" 2 " 12	" 74.7 " 82.0	" 55.9 " 69.1
Rio Grande valley.....	" 3 " 5	" 2 " 3	" 69.5 " 78.7	" 66.6 " 70.7
Ohio valley.....	" 13 " 15	" 12 " 17	" 70.5 " 75.9	" 44.5 " 50.4
Tennessee.....	" 13 " 21	" 11 " 16	" 80.5 " 82.3	" 56.3 " 58.4
Lower lakes.....	" 12 " 18	" 14 " 17	" 68.2 " 77.0	" 39.1 " 44.8
Upper lakes.....	" 14 " 19	" 9 " 18	" 70.2 " 76.7	" 33.3 " 42.3
Extreme northwest.....	" 10 " 16	" 14 " 17	" 78.7 " 83.2	" 31.9 " 33.7
Upper Mississippi valley.....	" 10 " 19	" 11 " 17	" 67.5 " 81.8	" 34.8 " 53.2
Missouri valley.....	" 12 " 18	" 9 " 14	" 69.2 " 77.0	" 32.1 " 43.7
Northern slope.....	" 6 " 18	" 6 " 11	" 57.9 " 78.3	" 23.4 " 36.4
Middle slope.....	" 6 " 13	" 5 " 8	" 56.4 " 74.2	" 29.3 " 45.6
Southern slope.....	" 5 " 14	" 5 " 13	" 56.9 " 79.1	" 44.0 " 58.2
Southern plateau.....	" 2 " 6	" 1 " 5	" 41.3 " 56.4	" 31.0 " 41.4
Northern plateau.....	" 12 " 18	" 7 " 13	" 65.7 " 77.5	" 34.8 " 37.2
North Pacific.....	" 15 " 21	" 11 " 17	" 78.6 " 86.9	" 43.1 " 47.1
Middle Pacific.....	" 6 " 9	" 2 " 3	" 60.9 " 80.6	" 42.3 " 50.4
South Pacific.....	" 2 " 7	" 0 " 4	" 49.1 " 70.4	" 44.7 " 51.4
Mt. Washington, N. H.....	Sixteen	Three	90.2	27.1
Pike's Peak, Col.....	Nine	One	83.1	12.2
Salt Lake City, Utah.....	Fourteen	Eleven	57.4	31.4

* Relative humidity corrected for altitude.

SLEET.

Pike's Peak, Colorado, 3d.

Davenport, Iowa, 24th.

Humboldt, Iowa, 11th.

Allison, Kansas, 11th.

Leavenworth, Kansas, 24th.

Escanaba, Michigan, 5th, 13th.

Marquette, Michigan, 3d.

Fort Ellis, Montana, 7th.

Mount Washington, New Hampshire, 29th, 30th.

Fort Union, New Mexico, 28th.

Salt Lake City, Utah, 17th, 26th.

Cheyenne, Wyoming, 8th.

COTTON REGION REPORTS.

In the table below are shown the average rainfall and the means of the temperature extremes for October, 1883, in the cotton districts as determined from observations made at the stations shown on chart vi., issued with the REVIEW for April, 1882. For the purpose of comparison the averages for the corresponding month of 1882, with the changes are also given:

Meteorological Record of the Cotton Districts for the month of October, in 1882 and 1883.

Districts.	Average rainfall in inches.			Temperatures.						Extremes for Oct., 1883.	
				Mean of the maxima.			Mean of the minima.			Max.	Min.
	1882.	1883.	Departures.	1882.	1883.	Change.	1882.	1883.	Change.		
New Orleans.....	2.64	2.60	— 0.04	81.9	84.9	+ 3.0	62.0	65.9	+ 3.9	97	37
Savannah.....	4.95	0.44	— 4.51	80.0	83.6	+ 3.6	61.0	62.2	+ 1.2	97	41
Charleston.....	4.41	1.12	— 3.29	78.2	78.4	+ 0.2	55.3	55.8	+ 0.5	95	36
Atlanta.....	2.04	2.48	+ 0.44	76.2	76.1	— 0.1	55.1	56.9	+ 1.8	98	38
Wilmington.....	3.08	2.32	— 0.76	75.2	75.6	+ 0.4	53.5	55.2	+ 1.7	91	40
Memphis.....	4.02	4.22	+ 0.20	78.3	76.3	— 2.0	54.6	54.7	+ 0.1	94	32
Galveston.....	5.73	2.55	— 3.18	82.6	83.6	+ 1.0	60.4	63.4	+ 3.0	96	40
Vicksburg.....	4.21	5.16	+ 0.95	79.8	81.1	+ 1.3	56.6	61.5	+ 4.9	98	38
Montgomery.....	2.28	1.26	— 1.02	79.8	82.1	+ 2.3	58.0	58.5	+ 0.5	96	25
Augusta.....	2.64	1.56	— 1.08	77.5	78.6	+ 1.1	57.4	56.0	— 1.4	96	40
Little Rock.....	4.34	1.79	— 2.55	78.3	77.2	— 1.1	54.5	50.0	— 4.5	96	20
Mobile.....	2.34	2.37	+ 0.03	81.7	82.2	+ 0.5	58.3	59.8	+ 1.5	100	35

WINDS.

The most frequent directions of the wind during October, 1883, at the Signal Service stations, are shown on chart iii., by arrows flying with the wind. In the lake region, Ohio valley, and along the Atlantic coast the prevailing winds at most of the stations were from the northeast; in the upper Mississippi and Missouri valleys, they were mostly from the southeast; in the west Gulf states they were southerly; and in other districts they were variable.

HIGH WINDS.

On the summit of Mount Washington, New Hampshire, maximum velocities of fifty miles or more per hour occurred on the following dates: 3d, 4th, 5th, 10th to 14th, 15th, 18th, 19th, 20th, 29th, 30th, 31st. The highest velocities recorded were: 78, nw., 4th; 70, w., 14th; 80, sw., 29th; 94, w., 30th, maximum for the month.

On the summit of Pike's Peak, Colorado, maximum velocities of fifty miles or more per hour occurred on the 1st, 6th, 8th, 12th, 26th, and 30th. The highest velocity recorded was 72, w., on the 1st.

At Cape Mendocino, California, the highest velocities recorded were: 76, se., 23d; 82, se., 24th; 58, se., 26th.

Other stations reporting wind velocities of forty-five miles or more per hour are as follows:

Barneget City, New Jersey, 56, ne., 23d.

Block Island, Rhode Island, 55, ne., 24th; 48, ne., 21st.

Delaware Breakwater, Delaware, 53, ne., 23d.

Sandy Hook, New Jersey, 50, w., 30th.

Cheyenne, Wyoming, 48 nw., 29th.

Fort Benton, Montana, 48, sw., 29th.

Keokuk, Iowa, 48, s., 17th.

Nashville, Tennessee, 48, sw., 29th.